

>Denotes revised material in this JPM

JOB PERFORMANCE MEASURE

TASK CODE: CFO-109

TASK: Operate a Portable Alpha Contamination Detection Instrument

NAME: _____ **>BADGE:** _____

>REFERENCES: Only references for knowledge items are listed here. The trainee is expected to identify the correct references for Practical items

- >1. WP 12-HP1300, Radiological Monitoring Equipment
- >2. Eberline ASP-1/AC-3 Technical Manuals
- 3. WP 12-HP1100, Radiological Surveys

TERMINAL OBJECTIVE:

>Given that alpha activity needs to be determined, perform the pre-operational checks and operate the portable alpha instrument per WP 12-HP1300 and WP 12-HP1100.

CONSEQUENCES OF INADEQUATE PERFORMANCE:

Improper survey results

HAZARDS (PERSONNEL/EQUIPMENT STATUS):

>Personnel Contamination

PRE-REQUISITE TRAINING/TASK COMPLETION:

- 1. CL 1.00 Series
- >2. CL 2.17, Contamination Monitoring Instrumentation and Techniques
- 3. CFO-156, Control Radioactive Sources

TOOLS/EQUIPMENT (MATERIALS REQUIRED):

- | | |
|------------------------|---|
| >1. ASP-1 w/AC-3 probe | 3. Portable instrument operability check form |
| 2. Th230 check source | |

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Instructions to Trainee: You shall acquire the necessary references and equipment, and complete all required documentation. Knowledge requirements shall be completed with 80% or greater accuracy. Critical step performance shall be completed with 100% accuracy.

Instructions to JPM Evaluator: The trainee is to perform the terminal objective, without assistance, on the job site. Provide clarification of requirements if requested by the trainee. You are encouraged to ask relevant questions to verify trainee understanding. If the trainee fails this JPM, clearly document the reason for failure and forward to the trainee's manager. Successful completion of this JPM shall be recorded on the trainee's qualification card.

>On performance items, if there is more than one means available to accomplish the step, circle the method used. Refer to the RCT-01 Qualification Standard for preference of use.

KNOWLEDGE REQUIREMENTS:

Reference	Knowledge Requirement	Pass/Fail
2	State the various scales of the ASP-1.	
>2	Describe how the ASP-1 with an AC-3 scintillation probe operates.	
>2	Describe the method used and reason for a light leak check.	
1	State your actions if any of the operational checks are unsatisfactory.	
3	Discuss how alpha contamination results are determined from counts.	

PERFORMANCE REQUIREMENTS:

>Method	Performance Requirement	Pass/Fail
P	Verify the instrument is in calibration. #	
P	Perform a physical inspection of the instrument. #	
P	Perform a battery check. #	
P	Perform a source check of the instrument. #	
>P	Perform a light leak check of instrument detector.	
P, S	Complete and submit the portable instrument performance check sheet for review. #	
P	Determine the gross alpha contamination levels of a smear. #	
P	Determine the gross alpha contamination levels of a masslinn. #	
>P	Demonstrate the method used to determine total alpha contamination. #	
P, S	Document the alpha contamination survey results. #	

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indicates a critical step

FINAL EVALUATION:

PASS

FAIL

COMMENTS:

EVALUATOR SIGNATURE:

----- **DATE:**-----

TRAINEE SIGNATURE:

----- **DATE:**-----

MANAGER SIGNATURE:

----- **DATE:**-----